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S/021/60/000/010/001/016  
D251/D303

AUTHOR: Trofimov, V.M.

TITLE: On the order of approximation with trigonometric polynomials on certain classes of functions of two variables

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 10, 1960, 1319 - 1322

TEXT: In this article the author considers the problem of estimating the upper limit of the best approximation in trigonometric polynomials on a class of functions

$$\Lambda^r H_p^{\omega_1, \omega_2}(1 \leq p < \infty)$$

defined as follows:  $\omega_1(t)$  and  $\omega_2(t)$  are arbitrary moduli of continuity,  $f(x, y)$  are functions of two real variables with periodicity 2 for each variable.  $\varphi(x, y)$  is defined by

$$\varphi(x, y) = \Delta^r(f) = \Delta^{r-1}(\Delta f),$$

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where

$$\Delta = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}.$$

$\Lambda^r H_p^{\omega_1, \omega_2}$  ( $1 \leq p \leq \infty$ ) is the class of functions  $f(x, y)$  satisfying

$$\| \varphi(x+t_1, y+t_2) - \varphi(x, y) \|_{L_p} = \left( \int_0^{2\pi} \int_0^{2\pi} |\varphi(x+t_1, y+t_2) - \varphi(x, y)|^p dx dy \right)^{\frac{1}{p}} \leq \omega_1(|t_1|) + \omega_2(|t_2|).$$

It is assumed that  $\omega_1(t)$  and  $\omega_2(t)$  are non-negative functions of a non-negative variable, and are monotonic and semiadditive.  $E_{m,n}(f)$  is taken to be the best approximation to  $f(x, y)$  in trigonometric polynomials of degree  $m$  in  $x$  and  $n$  in  $y$ . Theorem 1: For all integers  $m, n > 1$ ,  $r = 0, 1, 2, \dots$

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$$C_1(r) \left[ \frac{\omega_1\left(\frac{1}{m}\right)}{m^{2r}} + \frac{\omega_2\left(\frac{1}{n}\right)}{n^{2r}} \right] \leq \sup_{f \in \Lambda^r H_{\infty}^{\omega_1, \omega_2}} E_{m,n}(f) \leq C_2(r) \left[ \frac{\omega_1\left(\frac{1}{m}\right)}{m^{2r}} + \frac{\omega_2\left(\frac{1}{n}\right)}{n^{2r}} \right] \quad (2)$$

where  $C_1(r)$ ,  $C_2(r)$  depend only on  $r$ .  $W^{kH^\omega}$  is defined as denoting class of periodic functions  $\psi(x)$  having  $k$  derivatives, and for which the derivative  $\psi^{(k)}(x)$  has a modulus of continuity which does not exceed  $\omega(t)$ . Then

$$2 \sup_{f \in \Lambda^r H_{\infty}^{\omega_1, \omega_2}} E_{m,n}(f) > \sup_{f_1 \in W^{2r} H^{\omega_1}} E_m(f_1) + \sup_{f_2 \in W^{2r} H^{\omega_2}} E_n(f_2).$$

Following the monograph of O.F. Timan (Teoriya priblizheniya funktsiy dystvitel'nogo peremennogo (Theory of Approximate Functions of a Real Variable)) the author points out that the function

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$$\Phi_{n+1}(x) = \frac{1}{(n+1)^{2r}} \sum_{v=0}^{\infty} \frac{b_{2v+1}^{(n+1)}(\omega)}{(2v+1)^{2r}} \sin(2v+1)(n+1)x.$$

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where

$$b_{2v+1}^{(n)} = \frac{2}{\pi} \int_0^{\frac{\pi}{2}} \omega\left(\frac{t}{n}\right) \sin(2v+1)t dt$$

depends on the class  $W^{2r}H^{\omega}$  and for it

$$E_n(\Phi_{n+1}) \geq C(r) \frac{\omega\left(\frac{1}{n}\right)}{n^{2r}}$$

[Abstractor's note: Timan's monograph is mentioned in a footnote; no further details are given]. If

$$E_{m,n}(f)_{L_p} = \inf_{T_{m,n}} \|f - T_{m,n}\|_{L_p},$$

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then, using Minkowski's inequality, one obtains: Theorem 1'. For arbitrary  $p(1 \leq p < \infty)$ , and integers  $m, n > 1$ ,  $r = 1, 2, \dots$

$$\sup_{f \in \Lambda^r H_p^{\omega_1, \omega_2}} E_{m,n}(f)_{L_p} < C(r) \left[ \frac{\omega_1\left(\frac{1}{m}\right)}{m^{2r}} + \frac{\omega_2\left(\frac{1}{n}\right)}{n^{2r}} \right], \quad (2')$$

where  $C(r)$  depends only on  $r$ . [Abstractor's note: Minkowski's inequality not stated]. Inequalities similar to (2) and (2') may also be demonstrated if instead of a polyharmonic operator, some other operator, e.g.

$$\frac{\partial^r}{\partial x^r} + \frac{\partial^r}{\partial y^r}$$

is considered. If  $\omega_1(t) = t^\alpha$ ,  $\omega_2(t) = t^\beta$ , then the class  $\Lambda^{r, \omega_1, \omega_2}$  is denoted by  $\Lambda^{r, H^{\alpha, \beta}}$ . Result 1. If  $f \in \Lambda^{r, H^{\alpha, \beta}}$  ( $0 < \alpha, \beta < 1$ ), then the derivative  $\partial^{2r} f / \partial x^{2r}$  as a function of the variable  $x$  satisfies

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the Helder condition of degree  $\alpha$  with a constant which does not depend on  $y$ , and  $\partial^{2r} f / \partial y^{2r}$  as a function of the variable  $y$  satisfies the Helder condition of degree  $\beta$  with a constant which does not depend on  $x$ . [Abstractor's note: Condition not stated]. Result 2: If  $f \in \Lambda^{rH\beta, \alpha}$  ( $0 < \alpha \leq 1$ ) then every partial derivative

$\frac{\partial^{k+l} f}{\partial x^k \partial y^l}$  ( $k + l \leq 2r$ ) of  $f$  satisfies with respect to each variable the Helder condition of degree  $\alpha$  with a constant which is independent of both variables. There is 1 Soviet-bloc reference.

ASSOCIATION: Dnipropetrovs'ky derzhavnyy universytet (State University of Dnipropetrovs'k)

PRESENTED: by B.V. Hnyedenko, Academician AS UkrSSR

SUBMITTED: September 5, 1959

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ACC NR: AP6029928

(A)

SOURCE CODE: UR/0413/66/000/015/0090/0090

INVENTORS: Karlin, A. V.; Mitrofanov, L. A.; Trofimov, V. M.

ORG: none

TITLE: Method for obtaining low-molecular weight  $\alpha, \omega$ -dihydroxypolysiloxanes.  
Class 39, No. 184453 ✓

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 90

TOPIC TAGS: siloxane, water, polymerization, basic catalysis, catalysis

ABSTRACT: This Author Certificate presents a method for obtaining low-molecular weight  $\alpha, \omega$ -dihydroxypolysiloxanes from cyclosiloxanes, e.g., octamethylcyclotetrasiloxane or dimethyl phenylcyclotetrasiloxane at high temperatures and pressures. To simplify the process, the cyclosiloxane is reacted directly with water in the presence of catalytic amounts of alkali.

SUB CODE: .07/ SUBM DATE: 18Jun65

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UDC: 678.84

TROFIMOV, V.M., inzh.

Semiautomatic stand for checking the length of measuring wire.  
Mekh. i avtom. proizv. 18 no.10:34 0 '64. (MIRA 17:12)

AUTHOR: Vyazdikov, G. A.; Mordukhai, I. I.; Dzhurav, S. M.; Tsvetkov, V. M. V.

ions in solid dielectrics *A*

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 7, 1965, 1319-1320

TOPIC TAGS: solid dielectrics; ions; electrical properties; mechanical strength; etc.

AT THE END OF THE ARTICLE, THERE IS A LIST OF REFERENCES. THE ARTICLE IS  
DISCUSSED AND THE DISCUSSION IS BASED ON THE RESULTS OF THE EXPERIMENTAL  
STUDIES OF THE ELECTRICAL PROPERTIES OF SOLID DIELECTRICS.

Cont.

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FIGULEVSKIY, V.V.; IOANESOVA, A.L.; MAKHOVA, E.A.; TROFIMOV, V.M.

Reduction of vanadium ions. Zhur. prikl. khim. 37 no.9:  
1898-1902 S '64. (MIRA 17:10)

1. Leningradskiy institut kinoinzhenerov.

TROFIMOV, V. M.

~~Stresses~~ developing under the cutters of bits in drilling.  
Izv. vys. uch. zav.; geol. i razv. 5 no.7:120-124 J1 '62.  
(MIRA 15:10)

1. Moskovskiy institut stali.

(Boring)

DOLZHENKOV, Andrey Timofeyevich, dotsent, kand. tekhn. nauk; ANDREYEV, Nikolay Nikolayevich, dotsent; DOKUCHAYEVA, Avgusta Paramonovna, dotsent; KOZLOV, Ivan Pavlovich, starshiy prepodavatel'; KISELEV, Ivan Ivanovich, dotsent; PARAMZIN, Ivan Ivanovich, dotsent; TROFIMOV, Vladimir Ivanovich, dotsent; BEREZOVSKAYA, A.L., red.; KRYUKOV, V.L., red.; RAKOV, S.I., tekhn. red.

[Reference manual for young agricultural machinery operators]  
Spravochnik molodogo mekhanizatora sel'skogo khoziaistva. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1959. 694 p.  
(MIRA 12:12)

1. Prepodavateli Moskovskogo instituta mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (for Dolzhenkov, Andreyev, Dokuchayeva, Kozlov, Kiselev, Paramzin, Trofimov).

(Agricultural machinery--Maintenance and repair)

TROFIMOV, V. K., Chief of the MCA of the City of Moscow  
Your Hand Is Your Master

The chief of the MCA (Military Construction Administration) reported to the editors of Krasnaya Zvezda that the facts contained in the article bearing the above title (Krasnaya Zvezda, Moscow, 13 Jun 54) were true. He stated that disciplinary measures have been taken against V. V. BENESHEVICH\* and A. T. KIYASHKO\*, both deputy chiefs of the MCA of the city of Moscow, and against Ye. I. SIMONOV\*, chief of KECH of the MCA, and KAPRALOV\*, deputy chief of the Financial Accounting Section (schetno-finansovyy otdel) of the MCA. KOLIBERNOV, SUKHIN, KAPRALOV, and S. P. ZAYTSEV\*, chairman of the Building Committee (postroykom), all of whom illegally received second apartments, have been ordered to give them up. V. K. TROFIMOV\*, chief of the Military Construction Administration of the city of Moscow, had pointed out to him the poor control on his part of the work of the Billeting and Maintenance Service (kvartirno-ekspluatatsionnaya sluzhba) and the improper distribution of living space which he personally has permitted. The Military Construction Administration has been ordered to organize, in the near future and with the participation of social organizations, a thorough investigation of the state of living conditions of officers, engineering and technical personnel, workers, and laborers, and to bring order into the accounting for, and distribution of, living space. Measures were taken to insure living space for these employees of the MCA. (Krasnaya Zvezda, Moscow, 27 Jul 54)

SO: SUM No. 239, 13 Oct 1954

14-00000 0000

GUSAREV, V.F. (Dnepropetrovsk, ul. Dzerzhinskogo, d.10, kv.3.); TROFIMOV, V.L.

Treatment of intestinal obstruction in atresia of newborn infants.  
Vest.khir. 80 no.1:124-126 Ja '58. (MIRA 11:4)

1. Iz gosptal'noy khirurgicheskoy kliniki (zav. - prof. T.Ye. Gnilyorhov) lechebnogo fakul'teta i fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. M.F.Kamayev) pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov Dnepropetrovskogo meditsinskogo instituta.

(INTESTINES, abnorm.

atresia in newborn causing intestinal obstruct., surg.  
(Rus))

(INTESTINAL OBSTRUCTION, etiol. & pathogen.

atresia of intestine in newborn, surg. (Rus))

(INFANT, NEWBORN, dis.

intestinal obstruct. in atresia, surg. (Rus))

TROFIMOV, V. N.

Cand Phys-Math Sci, Diss -- "Linear methods of approximation for certain classes of periodic functions with two variables". Leningrad, 1961. 6 pp, 20 cm (Leningrad Order of Lenin State U imeni A. A. Zhdanov), 180 copies, Not for sale (KL, No 9, 1961, p 176, No 24267).  
[61-52353]

TROFIMOV, V.N.

Approximation of functions of some classes determined by a  
polyharmonic operator, by truncated arithmetic means of partial  
sums of Fourier series. Usp.mat.nauk 15 no.5:191-198 8-0, 160.

(MIRA 13:10)

(Fourier's series)

TROFIMOV, V.M. [Trofimov, V.M.]

On the order of approximation with trigonometric polynomials on  
some classes of functions of two variables. Dop.AN USSR no.10:1319-  
1322 '60. (MIRA13:11)

1. Dneproetrovskiy gosudarstvennyy universitet. Predstavleno  
akademikom AN USSR B.V.Gnedenko [Gnedenko, B.V.]  
(Functions of several variables)

85223

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S/042/60/015/005/016/016XX  
C111/C222

AUTHOR: Trofimov, V.N.

TITLE: Approximation of Functions of Certain Classes Determined by Poly-  
harmonic Operators, by Truncated Arithmetic Means of Fourier  
Series, Partial Sums

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol.15, No.5, pp.191-198

TEXT: Let  $\Delta^{\alpha, \beta}$  be the class of functions  $f(x, y)$  having the period  $2\pi$  in  $x$  and  $y$  and having the property that the function  $\varphi(x, y) = \Delta^{\alpha, \beta} f =$

$= \Delta(\Delta^{\alpha-1, \beta} f)$ , where  $\Delta = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}$ , satisfies the relation

$$(1) \quad |\varphi(x_1, y_1) - \varphi(x_2, y_2)| \leq |x_1 - x_2|^{\alpha} + |y_1 - y_2|^{\beta}$$

for arbitrary pairs  $(x_1, y_1), (x_2, y_2)$ .  $\Delta_p^{\alpha, \beta}$  denotes the class of periodic

functions  $f(x, y)$  for which  $\|\varphi\|_{L_p} = \left( \int_{-\pi}^{\pi} \int_{-\pi}^{\pi} |\varphi(x, y)|^p dx dy \right)^{1/p} \leq 1$ . Let

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$$E_{m,n}^{(p,q)}(L^r_H \omega, f; x, y) = \sup_{f \in L^r_H \omega, \beta} |f(x, y) - G_{m,n}^{(p,q)}(x, y)|,$$

where

$$G_{m,n}^{(p,q)}(x, y) = \frac{1}{(p+1)(q+1)} \sum_{m=p}^m \sum_{n=q}^n S_{k,l}(x, y)$$

and

$$(3) \quad S_{k,l}(x, y) = \frac{a_{0,0}}{4} + \frac{(-1)^r}{\pi^2} \int_D f(x+u, y+v) \sum_{i=0}^k \sum_{j=0}^l \theta_{ij}^{p,q} \cos iu \cos jv du dv$$

is a partial sum of the Fourier series of  $f(x, y)$ . Here  $D = [-\pi \leq x, y \leq \pi]$ , the prime means that the term with  $i=j=0$  is omitted. (3) is a partial sum of the development given by Ya.S. Bugrov (Ref. 2).

Theorem 1: If  $p = o(m)$ ,  $q = o(n)$ , then for arbitrary numbers  $r, \alpha, \beta$  it holds:

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$$(4) \quad E_{G(p,q)}(\Delta_{H^{\infty,\beta}}^r; x, y) = \frac{8 \ln \frac{m}{p+1} \ln \frac{n}{q+1}}{\pi^4 (m^2 + n^2)^r} \int_0^{\frac{\pi}{2}} \int_0^{\frac{\pi}{2}} \min \left\{ \left( \frac{2u}{m} \right)^\alpha, \left( \frac{2v}{n} \right)^\beta \right\} \sin u \sin v \, du \, dv + O \left[ \left( \ln \frac{m}{p+1} + \ln \frac{n}{q+1} \right) \left( \frac{1}{m^{2r+\alpha}} + \frac{1}{n^{2r+\beta}} \right) \right],$$

where  $O(1)$  is uniformly bounded with respect to all  $p \leq \theta m$ ,  $q \leq \theta n$  ( $0 < \theta < 1$ ).

Theorem 2: If  $p=o(m)$ ,  $q=o(n)$ , then for every  $r=1, 2, \dots$  it holds

$$(14) \quad \left. \begin{aligned} E_{G(p,q)}(\Delta_{\infty}^r) \\ E_{G(p,q)}(\Delta_1^r) \end{aligned} \right\} = \frac{16 \ln \frac{m}{p+1} \ln \frac{n}{q+1}}{\pi^4 (m^2 + n^2)^r} + O \left( \frac{\ln \frac{m}{p+1}}{m^{2r}} + \frac{\ln \frac{n}{q+1}}{n^{2r}} \right),$$

where  $O(1)$  is uniformly bounded with respect to all  $p \leq \theta m$ ,  $q \leq \theta n$  ( $0 < \theta < 1$ ).

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Here it is

$$E_{\sigma_{m,n}}^{(p,q)}(\Delta_1^r) = \sup_{f \in \Delta_1^r} \int_D |f(x,y) - \sigma_{m,n}^{(p,q)}(x,y)| dx dy$$

$$E_{\sigma_{m,n}}^{(p,q)}(\Delta_{-\infty}^r) = \sup_{f \in \Delta_{-\infty}^r} \left[ \sup_{x,y} |f(x,y) - \sigma_{m,n}^{(p,q)}(x,y)| \right].$$

The author mentions A.F.Timan, V.G.Ponomarenko and S.M.Nikol'skiy; he thanks A.F.Timan for the theme. There are 8 Soviet references.

SUBMITTED: February 20, 1959

Card 4/4

TROFIMOV, V.P., veterinarnyy vrach; YERMOCHENKOV, P.N., veterinarnyy vrach.  
(g.Valikaye Laki)

Hypodermatitis in sheep. Veterinariia 32 no.2:43 F '55. (MIRA 8:3)

1.Oblastnoye upravleniye sel'skogo khozyaystva.  
(SHEEP--DISEASES) (WARBLE FLIES)

TROFIMOV, V.P., vet. vrach.

~~Role of disinfection in preventing ringworm in lambs. Veterinariia~~  
35 no.6:54 Je '58. (MIRA 11:6)

1. Melidovskaya vetbaklaboratoriya Kalininskoy oblasti.  
(Ringworm)  
(Lambs--Diseases and pests)

TROFIMOV, V.P.

Scientific and technical conference on problems of manless coal  
mining. Ugol' 34 no.2:63 F '59. (MIRA 12:4)  
(Coal mines and mining--Research)

TROFIMOV, Vladimir Petrovich; KRAVETS, V.I., kand.tekhn.nauk, otv.red.;  
TUBOLEVA, M.V., red.

[Principal trends in the expansion of coal mining in the Ukrainian S.S.R.] Glavneishie napravleniia razvitiia ugol'noi promyshlennosti Ukrainskoi SSR. Kiev, 1960. 31 p. (Obshchestvo po rasprostraneniuiu politicheskikh i nauchnykh znanii Ukrainskoi SSR. Ser.7, no.8).

(MIRA 14:1)

(Ukraine--Coal mines and mining)

TROFIMOV, V.P., gornyy inzh.; REZNIKOV, V.T., gornyy inzh.

Mechanization of coal mining operations in United States mines.  
Ugol' Ukr. no.6:40-41 Je '60. (MIRA 13:7)  
(United States--Coal mines and mining)

TROFIMOV, V.P., gornyy inzh.

Experience acquired in the use of narrow-range mining ("Narrow-range coal mining" by A.D.Panov and others. Reviewed by V.P. Trofimov). Ugol' Ukr. 4 no.2:44 F '60. (MIRA 13:6)  
(Mining engineering) (Panov, A.D.)

TROFIMOV, V.P.

Results of the discussion concerning the mine level interval in  
steeply pitching seams. Ugol' Ukr. 4 no.7:37-38 J1 '60. .  
(MIRA 13:8)

(Coal mines and mining)

TROFIMOV, V.P., gornyy inzh.; VOVK, A.A., gornyy inzh.

Coal breaking by blasting with water infusion into bore holes. Ugol'  
Ukr. 4 no.10:44-45 O '60. (MIRA 13:10)  
(Coal mines and mining) (Blasting)

IZRAYELIT, B.Z., dotsent; VINNIK, I.V., inzh.; KARASIK, I.B., kand.  
tekhn.nauk; TROFIMOV, V.P., gornyy inzh.; VOVK, A.A., gornyy  
inzh.; SHAMRAY, G.A.

Response to I.E.Detistov's article "Evaluating the efficiency  
of explosives." Ugol' 35 no.3:58-61 Mr '60.  
(MIRA 13:6)

1. Gosudarstvennyy nauchno-tekhnicheskiy komitet USSR.  
(for Trofimov and Vovk).  
(Coal mines and mining--Explosives)  
(Detistov, I.E.)

TROFIMOV, V.P., kand. tekhn. nauk; MATVEYEV, M.T., kand. tekhn. nauk

Objectives of the five-year plan in conducting scientific research  
in the coal industry of the Ukrainian SSR. Ugol' Ukr. 9 no.12:1-3  
D '65. (MIRA 19:1)

VAL'SHTEYN, G.I.; VOLKOV, A.S.; TROPIMOV, V.P.

Basic measures to control the swelling of ground rock in development  
~~workings~~. Nauch. trudy KNIUI no.14:321-325 '64. (MIRA 18:4)

TROFIMOV, V.P.

Efficient methods of seam development in the Lvov-Volyn'  
Basin. Izv. DGI 42:112-120 '64. (MIRA 18:11)

TRUCHINOV, V.P., inzh.

creating the means for manless coal mining. Ugol'.prom. no.3:11-14  
Izv-Ja '62. (MIRA 18:3)

CHOPURIN, A.I.; VAL'SHTEYN, G.I.; TROFIMOV, V.P.

Using underground charges to combat ground heaving in a longwall  
at Mine No.13 of the "Abaiugol" Trust. Ugol' 39 no.02:32 3 'na.  
(MIRA 18:2)

1. Sverdlovskiy gornyy Institut (For Shebakin). 2. Kemerovskiy  
nauchno-issledovatel'skiy ugol'nyy Institut (For Val'shteyn,  
Trofimov).

TROFIMOV, V.P.

Duck infestation with Echinoparyphium and strigeles. Veterinarila  
39 no.4:46 Ap '62. (MIRA 17:10)

1. Nelidovskaya mezhrayonnaya veterinarno-bakteriologicheskaya  
laboratoriya, Kalininskaya oblast'.

TROFIMOV, V.P.; SPEKTOR, M.A.

The use of explosives in Swedish mines. Met. i gornorud.  
prom. no.5:93-94 S-0 '63. (MIRA 16:11)

TRQFIMOV, Vladimir Petrovich; YEFREMOV, G.D., kand. tekhn. nauk,  
retsensent; AFONINA, G.P.[Afonina, H.P.], red. 1zd-va;  
STARODUB, T.O., tekhn. red.; SHAFETA, S.M., tekhn. red.

[Ways of developing the coal industry of the Ukrainian S.S.R.]  
Shliakhi rozvytku vuhil'noi promyslovosti URSR. Kyiv, Derzh.  
vyd-vo tekhn. lit-ry URSR, 1963. 110 p. (MIRA 16:3)  
(Ukraine—Coal mines and mining)

L 17140-63 EPR/EPF(c)/EWT(1)/EPF(n)-2/EWP(q)/EWT(m)/BDS/ES(s)-2 AFFTC/  
 ASD/SSD Ps-4/Pr-4/Pu-4/Pt-4 WW/JD/JG S/0170/63/006/005/0029/0033  
 ACCESSION NR: AP3000441

AUTHOR: Trofimov, V. P.; B. I. Timchuk

TITLE: Heat transfer in molten metals with phase transformations under natural convection

SOURCE: Inzhenerno-fizicheskii zhurnal, v. 6, no. 5, 1963, 29-33

TOPIC TAGS: heat transfer, molten metal, natural convection, phase transformations, solidification melting

ABSTRACT: Using Timchuk's apparatus (Fig. 1 of Enclosure 1) and assumptions (Timchuk, B. I., Inzhenerno-fizicheskii zhurnal, no. 11, 1959), heat transfer between molten tin and lead and a crystallized crust under natural convection were investigated. The crust was formed on the surface of water-cooled hollow steel cylinders immersed in a bath of the molten metal. In the course of the experiments, which were carried out under stationary heat transfer conditions,  $\Delta(t_H)$ , the difference between the temperature of the molten metal and the crystallization point, varied between 60° and 40°C for lead and 40° and 25°C for tin. The results are generalized in equation (7) of Enclosure 2, which is valid for Gr between 1.7 x

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ACCESSION NR: AP300041

$10^7$  and  $1.2 \times 10^9$  and for  $Pr$  between  $1.5 \times 10^{-2}$  and  $3.2 \times 10^{-2}$ , and hence can be used in solving many practical problems connected with the melting and hardening of metals. Orig. art. has: 2 figures and 8 formulas.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR, Minsk (Institute of Heat and Mass Transfer of the AN BSSR)

SUBMITTED: 19Dec62

DATE ACQ: 10Jun63

ENCL: 02

SUB CODE: PH

NO REF SOV: 006

OTHER: 005

Card 2/42

PROYAVKIN, Ye.G., kand.tekhn.nauk; TROFIMOV, V.P., inzh.

Use of narrow-cut coal-mining combines in Czechoslovakia. Mekh.i avtom.  
prirodoz. 16 no.5:45-46 '62.

(MIRA 16:5)

(Czechoslovakia--Coal mining machinery)

TROFIMOV, V.P.; TIMCHUK, B.I.

Heat transfer in molten metals during phase transformations under  
conditions of natural convection. Inzh.-fiz. zhur. 6 no.5:29-33  
My '63. (MIRA 16:5)

1. Institut teploi massoobmena AN BSSR, Minsk.  
(Heat—Transmission) (Liquid metal)

SERGEYEV, V. L.; TROFIMOV, V. P.; YEREVICH, F. B.; YAS'KO, O. I.

Some results of studying the operation of an electric arc  
heater with gas stabilization of the discharge. Inzh.-fiz.  
zhur. 6 no.1:14-18 Ja '63. (MIRA 16:1)

(Electric arc)

TROFIMOV, V.P.

Symposium on the improvement of mining methods in Lvov-Volyn  
Basin Mines. Ugol' Ukr. 3 no.9:47-48 S '59. (MIRA 13:2)  
(Lvov-Volyn Basin--Coal mines and mining)  
(Automatic control)

TROFIMOV, V.P., inzh.

Reorganization and construction of mines in Great Britain and the  
U.S.A. Ugol.prom. no.5:78-81 S-O '62. (MIRA 15:11)  
(United States--Coal mines and mining)  
(Great Britain--Coal mines and mining)

TRCFIMOV, V.P., inzh.; MATVEYEV, M.T., inzh.

Some problems of the expansion of the coal mining industry  
in the Ukrainian S.S.R. Ugol'.prom. no.1:3-7 Ja-F '62.

(MIRA 15:8)

(Ukraine--Coal mines and mining)

TROFIMOV, V.P., gornyy inzh.; PROYAVKIN, Ye.T., kand.tekhn.nauk

Roof caving without the use of battery stulls in Ostrava-Karvina  
Basin mines and possibility of using this method in the Donets  
Basin mines. Ugol' Ukr. 6 no.1:42-44 Ja '62. (MIRA 15:2)  
(Czechoslovakia--Mining engineering)  
(Donets Basin--Coal mines and mining)

TROFIMOV, V. P. (Nelidov Interrain Veterinary Bacteriological Laboratory,  
Kalinin Oblast)

"Echinoparyphium and Strigeidae infestations of ducks"

Veterinariya, vol. 39, no. 4, April 1962 p. 46

TROFIMOV, V.P., gornyy inzhener

Shortcomings of the reorganization planning of some Donets Basin  
mines. Ugol' Ukr. 5 no.11:14-15 N '61. (MIRA 14:11)  
(Donets Basin--Coal mines and mining)

TROFIMOV, V.P., gornyy inzh.; VOVK, A.A., gornyy inzh.; CHERNYI, G.I.,  
gornyy inzh.

Dictionary of the Ukrainian mining terminology ("Russian-Ukrainian  
mining dictionary." Reviewed by V.P. Trofimov and others).  
Ugol' Ukr, 5 no.1:47 Ja '61. (MIRA 14:1)  
(Mining engineering—Dictionaries)  
(Russian language—Dictionaries—Ukrainian)

TROFIMOV, Vladimir Petrovich; KONONOV, K.G., inzh., ratsenzy

[Manless coal mining] Bezliudnaia vyenka ugliu. Kiev,  
Gostekhzdat USSR, 1962. 254 p. (MIRA 17:6)

co

8

Molybdenum deposits of Gostaysky district. V. S. Tsvetkov. *Mineral'nye Sibir'sk. i Tsvetkovsk. Mol. 4, 1122-30(1929).*—Molybdenite is always accompanied by quartz veins, and 22 of these occurrences have been found in the district. The concn. of ore is effected by passing it through a ball mill, with subsequent sifting. M. A. JERNAKOFF

ASIM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																										PROCESSES AND PROPERTIES INDEX																									
COMMON ELEMENTS																										COMMON ELEMENTS																									
<p>Classification of tin deposits in sulfide-cassiterite formations. V. S. Trufimov. <i>Soviet Geol.</i> 8, No. 12, 14-26 (1938).—T. classifies various types of cassiterite deposits as (I) arsenopyrite, (II) pyrrhotite, (III) pyrite, (IV) galeno-sphalerite and (V) chalcopyrite cassiterites. Type I, found in Tadzhikistan, is characterized by large amounts of contact silicates and originated in high-temp. zones. Type II, found in Khapcheranga, Transbaikai, Verkhoyansk and Yakutia, is of hydrothermal and sometimes of mesothermal origin. Type III is not found in the U. S. S. R. Type IV is found in the Far East, Transbaikai, Kirgizia and Tokichan. Type V is found in the Tyutyusu deposits of the Northern Caucasus. Three tables list the various minerals occurring in these five types in a no. of Soviet and non-Soviet deposits. A. A. Amiraslanov. <i>Ibid.</i> 9, No. 3, 86-7 (1939).—A criticism of Trufimov's classification. F. H. Rathmann.</p>																																																			
<p>ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<p>1ST AND 2ND ORDERS</p>																																																			



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Canadian type of primary diamond deposits and their possible occurrence in U. S. S. R. V. S. Trofimov. *Russkaya Nedra* 1939, No. 7, 17-22; *Khim. Referat*; Zhurnal, 1939, No. 11, 75. The Canadian-type diamond deposits are found in the deep ultrabasic rocks (dunites and peridotites). They are found with Cr boudins, which sometimes contain also Pt. C of the primary magma is the source of the formation of the diamonds. This magma was present in the residual magmatic melt in the form of compds. with other elements which were decompd. with change of physical-chem. factors. The diamonds were formed simultaneously with, or a little later than, the chromite. It is supposed that the diamonds are contained in the Ural chromite deposits contg. Pt of the dunite massives (Nizhniy Tagil, Isava, etc.), which are very similar to the diamond-contg. deposits of British Columbia (the Talamon region). Diamonds are also expected to be found in the other types of chromite deposits which do not contain Pt.

W. R. Henn

[illegible]

1ST AND 2ND CODES																										3RD AND 4TH CODES																									
COMMON ELEMENTS																										COMMON VARIANTS INDEX																									
<p><i>ca</i></p> <p>New data on the geology of the central part of the eastern Sayan. V. S. Trofimov. <i>Dokl. Akad. Nauk SSSR</i>, 193-5 (1940). -- On the bottom of the Lower Cambrian Sea, magma intrusions appeared and deposition of clay and calcareous bituminous materials took place. In a later period calcareous sands and pure limestone appeared. In the Upper Cambrian, with the recession of the Sea there was an erosion cycle. In the intrusion of the ancient granites, pyrite formation took place. Several analyses of the intrusions are given, including granites, ultrabasic rocks, and young granites. J. S. Joffe</p>																																																			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
1ST AND 2ND CODES																										3RD AND 4TH CODES																									
COMMON ELEMENTS																										COMMON VARIANTS INDEX																									

TROFIMOV, V.S., doktor geologo-mineralogicheskikh nauk.

A diamond-bearing province in Siberia. Priroda 46 no.7:10-18  
Jl '57. (MLRA 10:8)

1.Geologicheskii institut Akademii nauk SSSR, Moskva.  
(Yakutia--Diamonds)

TROFIMOV, Vladimir Sergeyevich, doktor geologo-mineralogicheskikh nauk;  
NAUMOV, Guriy Vasil'yevich, kandidat geograficheskikh nauk;  
USPENSKAYA, N.V., redaktor; GUBIN, M.I., tekhnicheskii redaktor

[Diamonds of Yakutia] Iakutskie almazы. Moskva, Izd-vo "Znanie,"  
1957. 31 p. (Vsesoyuznoe obshchestvo po rasprostraneniю politiches-  
skikh i nauchnykh znaniy. Ser.8, no.22) (MLRA 10:9)  
(Yakutia--Diamond mines and mining)

TROFIMOV, V.S.

Basic regularities of the formation and distribution of placer  
deposits in various climatic areas. Zakonom. razm. polezn. iskop.  
2:147-165 '59. (MIRA 15:4)

1. Geologicheskii institut AN SSSR.  
(Ore deposits)

SHATSKIY, N.S., akademik, otv. red.; SHANTSER, Ye.V., red.; ROZHKOV,  
I.S., red.; TROFIMOV, V.S., red.; MOMDZHI, G.S., red.;  
KAMSHILINA, Ye.M., red.; SHKLYAR, S.Ya., tekhn. red.;  
LOMILINA, L.N., tekhn. red.

[Mineral distribution characteristics] Zakonomernosti razme-  
shcheniia poleznykh iskopaemykh. Moskva, Gos.nauchno-tekhn.izd-  
vo lit-ry po gornomu delu. Vol.4.[Placer deposits] Rossypi.  
1960. 254 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh po-  
leznykh iskopayemykh. (Ore deposits)

TROFIMOV, V.S.

Oligocene placers in the western part of the Turgay trough  
and their distribution. Zakon.razm.polezn.iskop. 3:285-  
303 '60. (MIRA 14:11)

1. Geologicheskii institut AN SSSR.  
(Turgay region--Geology, Stratigraphic)

TROFIMOV, V.S.

Paleozoic kimberlites of the Siberian Platform. Dokl AN SSSR  
135 no.4:940-943 '60. (MIRA 13:11)

1. Geologicheskii institut Akademii nauk SSSR. Predstavleno  
akademikom D.I.Shcherbakovym.  
(Yakutia--Kimberlite)

TROFIMOV, V.S.

Source of diamonds in placers of the Markha River. Trudy  
IAFAN SSSR. Ser.geol. no.6:136-141 '61. (MIRA 14:9)  
(Markha Valley--Diamonds)

TROFIMOV, V.S.

Distribution of diamond deposits in the Siberian Platform.  
Trudy IAFAN SSSR. Ser.geol. no.6:142-153 '61. (MIRA 14:9)  
(Siberian Platform--Diamonds)

TROFIMOV, V.S.; BULAVA, Yu.V.

Quaternary diamond placers of the Siberian Platform. Trudy Kom.-  
chetv.per. no.26:7-19 '61. (MIRA 15:3)  
(Siberian Platform--Diamonds)

TROFIMOV, V.S.

Conditions of the formation and characteristics of the distribution of diamonds in kimberlites. Geol. rud. mestorozh. 5  
no.2:62-75 Mr-Apr '63. (MIRA 16:6)

1. Geologicheskii institut AN SSSR, Moskva.  
(Diamonds) (Kimberlite)

L 10820-02 BIR/BIR/02 02/02/02

100-100-10-26 10131

DATE: 11/11/1964

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RECEIVED BY DEPT. OF THE ARMY  
JAN. 11 '41. NO. 4. 1939-40  
U.S. ARMY

presentation of LOW BEAM II

picture of the flow field in the region of interest. The flow field is defined by the velocity field and the pressure field. The velocity field is defined by the velocity components in the x, y, and z directions. The pressure field is defined by the pressure distribution in the flow field.

experimentation if the chemical composition and equation of state of the fluid

DREMIN, A.N. (Moskva); TROFIMOV, V.S. (Moskva)

Calculating the critical diameters of the detonation of liquid  
explosives. PMTF no.1:126-131 Ja-F '64. (MIRA 17:4)

KAMSHILINA, Ye.M.; TROFIMOV, V.S.

Second conference on the geology of the mineral placer deposits.  
Izv. AN SSSR. Ser. geol. 29 no.8:107-112 Ag '64. (MIRA 17:11)

ACC NR: AP7000638

SOURCE CODE: UR/0414/66/000/003/0019/0030

AUTHOR: Trofimov, V. S. (Moscow); Dremine, A. N. (Moscow)

ORG: none

TITLE: On the fundamentals of a selection law for detonation velocity

SOURCE: Fizika gorennya i vzryva, no. 3, 1966, 19-30

TOPIC TAGS: detonation velocity, detonation kinetics, detonation wave, detonation rate

ABSTRACT: A new method for treating the explosion dynamics characterized by turbulence in the detonation front is presented. The turbulence is described by means of auxiliary averaging functions. When the averaging functions are purely thermodynamic, an additional distribution function is utilized. The laws of conservation are written in terms of these functions and it is shown that the dynamics are analogous to that of a plane detonation wave. The general problem yields physically interesting results when it is assumed that turbulence changes sufficiently rapidly into an isotropic process and fluctuations of the thermodynamic quantities damp out faster than velocity fluctuations. These assumptions lead to the computation of reaction rates which show that, in a regime approaching equilibrium, chemical reactions decay slower or faster according to certain heat flow criteria. This approach also explains theoretically

UDC: 534.222.2

Card 1/2

ACC NR: AP7000638

acoustic radiation in a direction toward the explosion products that was observed by  
P. I. Soloykhin (*Nauchno-tekhnicheskiye problemy goreniya i rezryva*, 1965, 2, 35).  
Orig. art. has: 38 formulas.

SUB CODE: ~~21~~ 19,07/

SUBM DATE: 02Mar66/

ORIG REF: 012/

OTH REF: 004

Card 2/2

BULAVA, Yu.V.; TROFIMOV, V.S.

Some characteristics of the distribution of heavy minerals  
in recent beach sediments on the northern coast of the  
Black Sea. Biul. Kom. chetv. per. no.30:58-71 '65. (MIRA 19:2)

TROFIMOV, V.S.

Hydrogoethite placers in the northern part of the Turgay trough.  
Geol. rud. mestorozh. 6 no.6:98-109 N-D '64.

(MIRA 18:4)

1. Geologicheskii institut AN SSSR, Moskva.

BULAVA, Yu.V.; TROFIMOV, V.S.

Some characteristics of the amber accumulation in the Oligocene  
sediments of the Zemlandskii Peninsula in Kaliningrad Province  
(Baltic amber province). Izv.vys.ucheb.zav.; geol. i razv. 6  
no.11:93-104 N '63. (MIRA 18:2)

1. Geologicheskii institut AN SSSR.

TROFIMOV, V.S.

Basic factors controlling the formation and distribution of  
mineral placers. Lit. i pol. iskop. no.6:5-18 N.D '64. (MIRA 18:3)

1. Geologicheskly institut AN SSSR, Moskva.

SMIRNOV, V.I., akademik, otv. red.; ROZHKOV, I.S., red.;  
TROFIMOV, V.S., red.; SHILO, N.A., red.; KAMSHILINA,  
Ye.M., red.

[Geology of placers] Geologiya rossypei. Moskva, Nauka,  
1965. 399 p. (MIRA 18:6)

1. Akademiya nauk SSSR. Nauchnyy sovet po rudoobrazovaniyu.

TROFIMOV, V.S., doktor geo.-mineral.nauk

Placer deposits of minerals and urgent problems in their investigation.  
Biul.tekh.-ekon.inform.Gcs.nauch.-issl.inst.nauch.i tekhn.inform 17  
no.7:78-80 J1 '64. (MIRA 17:10)

TROFIMOV, V.S.

Second Conference on the Geology of Mineral Placer Deposits in  
the U.S.S.R. Lit. i pol. iskop. no.5:122-125 S.-O '64. (MIRA 17:11)

TROFIMOV, V.S.

Classification of littoral placers. Geol. rud. mestorozh. 6 no.4:  
105-108 JI-Ag '64. (JIRA 17:10)

DREMIN, A. N.; TROFIMOV, V. S.

"On the nature of the critical diameter."

report presented at the 10th Intl Combustion Symp, Cambridge, UK, 17-21 Aug 64.

Inst of Chemical Physics, AS USSR, Moscow.

TROFIMOV, V. S.

51-4 -1-22/26

AUTHOR: Trofimov, V. S.

TITLE: Dependence of the Brightness of Electroluminescence on Voltage. (Zavisimost' yarkosti elektrolyuminestsentsii ot napryazheniya.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Nr.1, pp. 113-115. (USSR)

ABSTRACT: Dependence of the luminescent brightness on voltage was measured using apparatus consisting of a photomultiplier  $\text{C}\text{ЭY-19}$ , a d.c. amplifier and a microammeter. The capacitor was placed directly in front of the photomultiplier photocathode. The results obtained for ZnS-Cu ( $10^{-4}$  gram-atoms of Cu per mole of ZnS) are given in Figs. 1 and 2. Fig.1 ordinate represents the logarithm of brightness B, and the abscissa represents the quantity  $10/\sqrt{U}$ , where U is the r.m.s. voltage of 50 c/s applied to the capacitor. Fig.1 shows that on Card 1/4 increase of U, beginning with 33 V the extremal points

51-4, -1-22/26

Dependence of the Brightness of Electroluminescence on Voltage.

depart from the law given by Eq.1

$$B = A \exp (-b/\sqrt{U})$$

where A and b are constants. This law was obtained by Zahlm, Diemer and Klasens (Ref.3) on the basis of the impact ionization mechanism and assuming the existence of layers impoverished in charge carriers. The field is concentrated in such layers. Fig.2 shows dependence of logB on 100/U. Beginning with 64 V the extremal points satisfy the law given by Eq.2

$$B = A' \exp(-b'/U)$$

where A' and b' are constants. The results show that beginning with r.m.s. voltage of 50 V the impoverished layer extends throughout the whole of the crystal, and Card 2/4 therefore the true field intensity is equal to the mean

51-4-1-22/26

Dependence of the Brightness of Electroluminescence on Voltage.

applied field intensity, which is of the order of  $10^5$  V/cm. Electroluminescence was observed even at peak values of 10 V. At the latter voltage the true field is calculated to be  $5 \times 10^4$  V/cm. The author concludes that electroluminescence does not require fields of the order of breakdown strength ( $> 5 \times 10^5$  V/cm). Acceleration of electrons to energies necessary for impact ionization of the lattice begins well before breakdown; breakdown occurs when this ionization is not balanced out by re-combination and when the number of electrons in the conduction band grows in avalanche fashion. The author thanks M.N. Alentsev for directing the work. There are 2 figures and 6 references,

Card 3/4 3 of which are English, 1 French, 1 Dutch and 1 Russian.

51-4 -1-22/26  
Dependence of the Brightness of Electroluminescence on Voltage.

ASSOCIATION: Physics Institute, Academy of Sciences of the  
USSR. (Fizicheskiy institut, AN SSSR.)

SUBMITTED: April 22, 1957.

AVAILABLE: Library of Congress.

1. Voltage-Luminescent brightness-Theory
2. Photo-multipliers-Applications

Card 4/4

S/108/63/018/002/007/010  
D413/D308

AUTHORS: Ivanov, I. F. and Trofimov, V. S., Members of the  
Society (see Association)

TITLE: A universal method of measuring the nonlinearity of  
pulse-circuit equipment

PERIODICAL: Radiotekhnika, v. 18, no. 2, 1963, 52-60

TEXT: The authors survey the various methods used for measuring nonlinearity in pulse circuits for television, radar and other purposes, and consider the general requirements for such a method. They examine three main nonlinearity criteria:  $\eta$  as used in television, expressing the maximum deviation of the differential amplification factor from its initial value;  $\xi$  as used in radar, expressing the maximum relative deviation of the amplitude characteristic from the tangent to it at the origin, and  $\xi$ , expressing the maximum relative deviation of the characteristic from the line joining its ends. They introduce a classification of amplitude characteristics, work out the values of the various criteria for

Card 1/2

A universal method ...

S/108/63/018/002/007/010  
D413/D308

seven typical standard characteristics, and draw conclusions about the advantages and disadvantages of the criteria. They consider a universal method of measuring nonlinearity previously presented by the first author (I. F. Ivanov, Radiotekhnika, v. 15, no. 3, 1960), which uses a sawtooth-modulated pulse-train as input, automatically compares output and input voltages, and presents the nonlinearity function directly on a GRT display. It is shown that this method is most suited to the purpose and has extensive further applications in pulse-circuit design work. There are 5 figures and 2 tables.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A. S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A. S. Popov) / Abstracter's note: Name of Association taken from first page of journal /

SUBMITTED: June 3, 1961 (initially)  
November 14, 1961 (after revision)

Card 2/2

TRCFIMOV, V.S.

Wattmeter measuring instantaneous losses in electroluminophors.  
Prib. 1 tekhn. eksp. no.6:65-68 H-D '60. (MIRA 13:12)

1. Fizicheskii institut AN SSSR.  
(Luminescent substances)

(Wattmeter)

TROFIMOV, V.T.

Regionalization of the southwestern part of the West Siberian  
Plain for purposes of engineering geology. Vest. Mosk. un.  
Ser. 4: Geol. 18 no.4:36-44 JI-Ag '63. (MIRA 16:10)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo  
universiteta.

SERGEYEV, Ye.M.; IL'INSKAYA, G.G.; REKSHINSKAYA, L.G.; TROFIMOV, V.T.

Study of the distribution of clay minerals for purposes of  
engineering geology. Vest. Mosk. un. Ser. 4; Geol. 18 no.3:  
3-9 My-Je '63. (MIRA 16:10)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo  
universiteta.

POLYAKOV, S.S.; TROFIMOV, V.T., aspirant

Composition and properties of Middle Quaternary moraine formations  
in the western part of the West Siberian Plain. Izv. vys. ucheb.  
zav.; geol. i razv. 7 no.6:107-112 Je '64. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

TROFIMOV, V.T.; POLYAKOV, S.S.

Characteristics of the Middle Quaternary fluvioglacial sediments  
in the western part of the West Siberian Plain. Vest. Mosk. un.  
Ser. 4: Geol. 19 no.3:89-97 My-Je '64.

(MIRA 17:12)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo uni-  
versiteta.

TROFIMOV, V.T.

Characteristics of the composition and properties of alluvial  
and alluvial-lake sediments in the Northern Sos'va Valley. Vest.  
Mosk. un. Ser. 4: Geol. 19 no.4:37-44 J1-Ag '64. (MIRA 17:11)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo uni-  
versiteta.

TROFIMOV, V.T.; BEZGIN, N.P.

Some data on the weathering of basic effusive rocks. Vest.Mosk.un.  
Ser. 4: Geol. 16 no.3:51-56 My-Je '61. (MIRA 14:6)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo  
universiteta.

(Rocks, Igneous) (Weathering)

TROFIMOV, V.V.

TROFIMOV, V.V.; KOZAKOV, B.N. (Moskva)

Specialized medical personnel in the Russian Federation during  
40 years. Zdrav.Ros.Feder. 1 no.10:38-46 0 '57. (MIRA 10:12)  
(MEDICINE--SPECIALTIES AND SPECIALISTS)

TROFIMOV, V.V.

Training of medical personnel in the R.S.F.S.R. from 1959 to  
1965. Klin.med. 37 no.1:12-18 Ja '59. (MIRA 12:3)

1. Zamestitel' ministra zdavookhraneniya RSFSR.  
(EDUCATION, MEDICAL  
in Russia (Rus))

TROFIMOV, V.V. (Moskva)

Improve the distribution of physicians. Sov. zdrav. 19 no.7:20-23  
'60. (MIRA 13:8)

1. Zamestitel' ministra zdravookhraneniya RSFSR.  
(PHYSICIANS)

TROFIMOV, V.V.

Some problems in raising the qualifications of medical personnel in  
the R.S.F.S.R. Zdrav.Ros.Feder. 6 no.7:3-7 J1 '62. (MIRA 15:9)

1. Zamestitel' ministra zdravookhraneniya RSFSR.  
(PUBLIC HEALTH ADMINISTRATION) (PHYSICIANS)